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L15	5	(minimum with number$1 server$1 with tier$1) and (average with response with time) and (service with level with metric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/22 19:03
L16	1	(minimum with number$1 with server$1 with tier$1) and (average with response with time) and (service with level with metric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/22 19:03
L17	9	(minimum with number$1 with server$1 with tier$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB	OR	OFF	2006/09/22 19:04
L18	6	("6009103"|"6229816"|"6331986").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L19	17056	data near center$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L20	12286	data adj center$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L21	966	L20 and (allocat$4 same resourc$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L22	402	L20 and (allocat$4 same resourc$3 same applicat$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12

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L23	57	L22 and ((instrument$4 or transact$4) near data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L24	22187	(allocat$4 near resourc$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L25	906	L24 and ((instrument$4 or transact$4) near data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L26	107	L25 and (workload$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L27	84	L26 and (bandwidth$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L28	99	L26 and (automatic$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L29	7	L23 and (workload same level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L30	30	L24 and ((automatic$5 near reconfigur$4) same resourc$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12

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L31	77	L27 and (automatic$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L32	270	L24 and ((automatic$5 same (reconfigur$4 or reallocat$4)) same resourc$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L33	217	L32 and @ad<="20030722"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:14
L34	33	L33 and (data adj center$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L35	48	("5243596" "5392396" "5506969" "5713043" "6078577" "6985979" "5365516" "5526357" "5784358" "5557611" "6035324" "6119153" "6192406" "6212178" "5485455" "5491694" "5504744" "5521910" "5581703" "5583869" "5640569" "5640595" "5701465" "5790546" "5806085" "6011804" "6012092" "6016500" "6070184" "6085241" "6128717" "6167395" "6212597" "6212178" "6212597" "6243716" "6401167" "4429382" "4591978" "4914619" "4969092" "4977596" "4991089" "5224099" "5313454" "5347511" "5357632" "5388238" "5392434" "5408465").pn.	USPAT	OR	OFF	2006/09/22 19:12
L36	3	L35 and (data near center$2)	USPAT	OR	OFF	2006/09/22 19:12
L37	27	L35 and (resourc$2 same allocat$2)	USPAT	OR	OFF	2006/09/22 19:12
L38	1	(US-20020120744-$).did.	US-PGPUB	OR	OFF	2006/09/22 19:12
L39	1	(US-20020194251-$).did.	US-PGPUB	OR	OFF	2006/09/22 19:12
L40	1	(US-20020194251-$).did.	US-PGPUB	OR	OFF	2006/09/22 19:12
L41	114	((Mixed Integer Programming problem) or MIP2)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2006/09/22 19:12

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L42	114	L41 and ad@<="20030722"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2006/09/22 19:12
L43	69	L41 and @ad<="20030722"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2006/09/22 19:12
L44	1	("6012052").PN.	USPAT; USOCR	OR	OFF	2006/09/22 19:12
L45	1	(US-20020194251-$).did.	US-PGPUB	OR	OFF	2006/09/22 19:12
L46	234	((Mixed Integer Programming) or MIP2)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2006/09/22 19:12
L47	160	L46 and @ad<="20030722"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:12
L49	37805	"707/".ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:14
L50	1	49 and (average with response with time) and (service with level with metric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:14
L51	156	49 and (average with response with time)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:15
L52	33	49 and (average with response with time) and (service with level)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/09/22 19:15

Terms used **Resource allocation server utilization**

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1 Architecture for resource allocation services supporting interactive remote desktop sessions in utility grids

Vanish Talwar, Bikash Agarwalla, Sujoy Basu, Raj Kumar, Klara Nahrstedt

October 2004 **Proceedings of the 2nd workshop on Middleware for grid computing MGC '04**

Publisher: ACM Press

Full text available: pdf(131.96 KB) Additional Information: full citation, abstract, references, index terms

Emerging large scale utility computing systems like Grids promise computing and storage to be provided to end users as a utility. System management services deployed in the middleware are a key to enabling this vision. Utility Grids provide a challenge in terms of scale, dynamism, and heterogeneity of resources and workloads. In this paper, we present a model based architecture for resource allocation services for Utility Grids. The proposed service is built in the context of interactive remo ...

Keywords: QoS, grid computing, remote desktop sessions, resource allocation service

2 Cluster reserves: a mechanism for resource management in cluster-based network servers

Mohit Aron, Peter Druschel, Willy Zwaenepoel

June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(975.49 KB) Additional Information: full citation, abstract, references, citings, index terms

In network (e.g., Web) servers, it is often desirable to isolate the performance of different classes of requests from each other. That is, one seeks to achieve that a certain minimal proportion of server resources are available for a class of requests, independent of the load imposed by other requests. Recent work demonstrates how to achieve this performance isolation in servers consisting of a single, centralized node; however, achieving performance isolation in a distributed, cluster bas ...

3 Scalable and fault-tolerant support for variable bit-rate data in the exedra streaming server

Stergios V. Anastasiadis, Kenneth C. Sevcik, Michael Stumm

November 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 4

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms

We describe the design and implementation of the Exedra continuous media server, and experimentally evaluate alternative resource management policies using a prototype system that we built. Exedra has been designed to provide scalable and efficient support

for variable bit-rate media streams whose compression efficiency leads to reduced storage space and bandwidth requirements in comparison to constant bit-rate streams of equivalent quality. We examine alternative disk striping policies, and qua ...

Keywords: Content distribution, multimedia compression

4 Multimedia and visualization (MV): Providing resource allocation and performance isolation in a shared streaming-media hosting service

Ludmila Cherkasova, Wenting Tang

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(474.19 KB) Additional Information: full citation, abstract, references, index terms

The trend toward media content hosting is seeing a significant growth as more rich media is used in the enterprise environment and as it becomes mission critical for businesses. A shared media hosting service supports the illusion that each hosted service has its own media server, when, in reality, multiple "logical hosts" may share one physical host. For such a shared media hosting service, the ability to guarantee a specified share of server resources to a particular hosted service is very imp ...

Keywords: QoS guarantees, SLAs, admission control, benchmarking, measurement, media server capacity, performance isolation, shared media hosting, simulation

5 Managing energy and server resources in hosting centers

Jeffrey S. Chase, Darrell C. Anderson, Prachi N. Thakar, Amin M. Vahdat, Ronald P. Doyle

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(1.61 MB) Additional Information: full citation, abstract, references, citings, index terms

Internet hosting centers serve multiple service sites from a common hardware base. This paper presents the design and implementation of an architecture for resource management in a hosting center operating system, with an emphasis on *energy* as a driving resource management issue for large server clusters. The goals are to provision server resources for co-hosted services in a way that automatically adapts to offered load, improve the energy efficiency of server clusters by dynamically res ...

6 Video Storage: System support for providing integrated services from networked multimedia storage servers

Ravi Wijayaratne, A. L. Narasimha Reddy

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(227.49 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe our experience in building an integrated multimedia storage system, Prism. Our current Linux-based implementation of Prism provides three levels of service: deadline guarantees for *periodic* applications, best-effort better response times for *interactive* applications and starvation-free throughput guarantees for *aperiodic* applications. Prism separates resource allocation from resource scheduling. Resource allocation is controlled across the service ...

Keywords: admission control, disk, file systems, multimedia, scheduling

7 Scheduling and resource allocation: SHARP: an architecture for secure resource peering

Yun Fu, Jeffrey Chase, Brent Chun, Stephen Schwab, Amin Vahdat

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

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JS Chase, DC Anderson, PN Thakar, AM Vahdat, RP ... - ACM SIGOPS Operating Systems Review, 2001 - portal.acm.org
... suppose customer i leases a virtual **server** with a ... way by defining a maximum target **utilization** level p,rg ... 4.2 MSRP **Resource Allocation** We now describe how the ...
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JY Hui, BC Res, NJ Morristown - Selected Areas in Communications, IEEE Journal on, 1988 - ieeexplore.ieee.org
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